CONTENTS

Volume 9, Issue Nos. 1–6

International Journal of

ADAPTIVE CONTROL AND SIGNAL PROCESSING

Special Issue: Bounded Error Estimation, Issue 2
Guest Editor: J. P. Norton

Issue No. 1, January–February 1995

EDITORIAL, ISSUE 2 1

Deconvolution with Bounded Uncertainty: P. L. Combettes and H. J. Trussell . 3

Approximating Linear Functionals on Unitary Spaces in the Presence of Bounded Data Errors with Applications to Signal Recovery: B. Z. Kacewicz and M. A. Kowalski 19

Identification by Parameter Bounds in Adaptive Control: S. M. Veres 33

On Bound Error Identification of Feedback Systems: P. M. Mäkilä and J. R. Partington 47

Parameter Bounds for a Class of Discrete Bilinear Systems from Record with Bounded Output Errors: V. Cerone 63

l_2-Projection in Bounded-error Estimation: K. J. Keesman 71

Optimality Properties in Finite Samples l_2 Identification with Bounded Noise: B. Kacewicz and M. Milanese 87

Uncertainty Evaluation for Estimates from Recursive Projection Algorithms: G. Belforte 97

Rapprochment Between Bounded-Error and Stochastic Estimation Theory: B. M. Ninness and G. C. Goodwin 107

Issue No. 2, March–April 1995

EDITORIAL 135

Adaptive Control of Non–minimum Phase Systems: M. C. Campi 137

Indexed by 'Artificial Intelligence Abstracts', 'Cambridge Scientific Abstracts', 'CompuMath Citation Index Institute for Scientific Information (ISI)', 'Engineering Index', 'Fluids Abstracts & FLUIDEX', 'INSPEC', 'Research Alert (ISI)', 'SCISEARCH Database (ISI)', 'Shock and Vibration Digest', 'Statistical Theory & Method Abstracts', 'Telecommunications Abstracts'

A Design Method of Adaptive Load Frequency Control with Dual–rate Sampling: K. Yamashita, M. Hirayasu, K. Okafuji and H. Miyagi 151

An Extension of Nyquist's Theorem to Non–uniformly Sampled Finite Length Data: M. R. Belmont 163

TECHNICAL NOTES

Adaptive Control in a Heating Vessel: A Comparative Study: J. R. Pérez-Correa, F. R. Sépulveda and M. A. Duarte 183

Design of Adaptive Feedforward Algorithms Using Internal Model Equivalence: W. Messner and M. Bodson 199

Self–Tuning Ziegler–Nichols PID Controller: V. Bobal 213

Issue No. 3, May–June 1995

A New Indirect Adaptive Algorithm for Feedforward Control with Application to Active Noise Cancellation: A. K. Wang and W. Ren 227

Self-oscillating Adaptive Design of Systems with Dry Friction and Significant Parameter Uncertainty: S. Oldak and P. O. Gutman 239

Self-tuning Smith Predictors for Processes with Long Dead Time: C.-C. Hang, Q.-G. Wang and L.-S. Cao 255

TECHNICAL NOTES

Self-optimization Adaptive Velocity Control of Asymmetric Hydraulic Actuator: C. H. Huang and Y. T. Wang 271

Amplitude-constrained Adaptive LQG Control of First-order Systems: A. Królikowski 285

Issue No. 4, July–August 1995

Godard Blind Equalizer Error Surface Characteristics: White, Zero-Mean, Binary Source Case: C. R. Johnson Jr. and B. D. O. Anderson 301

Approximate Gradients, Convergence and Positive Realness in Recursive Identification of a class of Non-linear Systems: T. Wigren 325

Smoothing with Adaptive Rank Order Filters For Early Processing In Image Segmentation: P. Zamperoni 355

TECHNICAL NOTE

Real-time Implementation of An Indirect Adaptive Robot Controller: L.-A. Dessaint, M. Saad, B. Herbert and S. Robert 369

BOOK REVIEW 383

Issue No. 5, September–October 1995

Effects of Dead-zone Identification in Robust Self-tuning Cheap Control: D. Borrelli and E. Mosca 385

The Autocalibration of PI Controllers Based on Two Frequency Measurements: A. Voda and I. D. Landau 395

Directly Computable L_2 and L_∞ Performance Bounds for Morse's Dynamic Certainty Equivalence Adaptive Controller: A. Datta and P. A. Ioannou 423

Co-ordinate Transformation in Back-stepping design for a Class of Non-linear Systems: W. Zhan and L. Y. Wang 433

A Robust Decentralized Three-segment Non-linear Sliding Mode Control for Rigid Robotic Manipulators: M. Zhihong and M. Palaniswami 443

ANNOUNCEMENT 459

Special Issue: Grey Box Modelling
Guest Editor: K. M. Hangos

Issue No. 6, November–December 1995

EDITORIAL 461

Issues In Nonlinear Stochastic Grey Box Identification: T. Bohlin and S. F. Graebe 465

Experiment Design for Grey Box Identification: P. Sadegh, J. Holst, H. Madsen and H. Melgaard 491

Tools for Semiphysical Modelling: P. Lindskog and L. Ljung 509

Recursive Approximation by ARX Model: A Tool for Grey Box Modelling: M. Kárný, A. Halousková and P. Nedoma 525

Grey Box Modelling for Control: Qualitative Models as a Unifying Framework: S. B. Jørgensen and K. M. Hangos 547

AUTHOR INDEX 563

KEY WORD INDEX 565